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DERWENT-ACC-NO: 1999-527940
DERWENT-WEEK: 200117
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TITLE: Absorbent paper product useful as toilet paper, a paper napkin or a paper tissue

INVENTOR: HOEFT, B; ROUSSEL, G

PATENT-ASSIGNEE:

ASSIGNEE

CODE

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PRIORITY-DATA: 1998FR-0002792 (March 6, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1084300 A1	March 21, 2001	F	000	D21H027/40
WO 9945205 A1	September 10, 1999	F	020	D21H027/40
FR 2775698 A1	September 10, 1999		000	D21H027/40

DESIGNATED-STATES: BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE CA NO TR US AT BE CH CY
DE DK ES FI FR GB GR IE IT LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1084300A1	March 5, 1999	1999EP-0937958	
EP 1084300A1	March 5, 1999	1999WO-FR00504	
EP 1084300A1		WO 9945205	Based on
WO 9945205A1	March 5, 1999	1999WO-FR00504	
FR 2775698A1	March 6, 1998	1998FR-0002792	

INT-CL (IPC): A47 K 10/16; B31 F 1/07; B32 B 29/00; B32 B 31/00; D21 H 27/32; D21 H 27/40; D21 H 27/38

ABSTRACTED-PUB-NO: WO 9945205A

BASIC-ABSTRACT:

NOVELTY - An absorbent paper product comprises external embossed layers which have a high inner protuberance density and which are bonded by adhesive to a central non-embossed layer.

DETAILED DESCRIPTION - An absorbent paper product of 36-105 g/m³ weight comprises external embossed layers which have relief patterns, consisting of more than 30 discrete protuberances per cm² directed towards the interior of the structure, and which are joined by adhesive bonding of the protuberance tips to a central non-embossed layer. An INDEPENDENT CLAIM is also included for production of an absorbent paper product, comprising three layers of individual weight 12-35 (preferably 12-25) g/m², by embossing two of the layers to form relief patterns of discrete protuberances, placing a non-embossed layer on the protuberances of one of the embossed layers, applying

adhesive onto the non-embossed layer, applying the other embossed layer such that the protuberances are aligned and pressing the layers to cause adhesive bonding.

USE - As toilet paper, a paper napkin or a paper tissue (claimed).

ADVANTAGE - The product has a soft and thick feel and good crush resistance after winding.

DESCRIPTION OF DRAWING(S) - The drawing shows a cross-sectional view of a product of the invention.

Product 1

External embossed layers 2, 3

Central non-embossed layer 4

Protuberances 11, 33

Bonding points A1, A2

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: ABSORB PAPER PRODUCT USEFUL TOILET PAPER PAPER NAPKIN PAPER TISSUE

DERWENT-CLASS: F09 P72 P73

CPI-CODES: F05-A06A; F05-A06B;

SECONDARY-ACC-NO:

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